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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

Docketing.Schaumburg@motorola.com
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Office Action Summary

Application No.

10/530,540

Applicant(s)

PETRESCU ET AL.

Examiner

Joshua Smith

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 06 April 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 06 April 2005 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date 4/6/2005.
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

The amendment filed on 4/6/2005 has been entered.

- **Claims 1-20 are pending.**
- **Claims 21 and 22 have been canceled.**
- **Claims 1-20 stand rejected.**

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In regards to Claims 1, 4, 7, 8, 12, 13 and 15-18, the phrase "and/or" renders the claims indefinite because "and" indicates **all** limitations among multiple limitations are required, whereas "or" indicates **a single** limitation among multiple limitations is required. Dependent Claims 2, 3, 5 and 6, are rejected for depending from Independent Claim 1, and Dependent Claims 9-11, 14, 19 and 20 rejected for depending from Independent Claim 8.

Regarding claims 5 and 6, the phrase "for example" renders the claims indefinite because it is unclear whether the limitation(s) following the phrase are part of the claimed invention. See MPEP § 2173.05(d).

Claim Rejections - 35 USC § 103

1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

2. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Claims 1, 2, 4-6, 19 and 20 are rejected under 35 U.S.C. 103(a) as being unpatentable over La Porta et al. (Document Number: EP 1 011 241 A1) in view of Immonen et al. (US 7,006,472 B1), Edsall et al. (Patent Number: 5,742,604), and Prasad et al. (Patent No.: US 7,054,328 B2), hereafter referred to as La Porta, Immonen, Edsall, and Prasad, respectively.

In regards to Claims 1 and 6, La Porta teaches in column 5, lines 43-48 and 51-54, Mobile IP wireless access for Internet Protocol (IP)-based network of mobile devices (supporting mobility in an Internet Protocol (IP)-based data network).

La Porta also teaches in column 16, lines 20-31, a path setup message that is sent and initiated by a mobile device that is used to update routing table entries for selected routers, where, in column 18, lines 16-18, and in FIG. 9, page 33, a path setup message contains a mobile device IP address field (item 314, FIG. 9) that is used to inform a receiving router of the current IP address assigned for a mobile device within a domain (generating a first message at a mobile node, wherein the message contains an address capable of use for route maintenance to/from a mobile device, and a mobile node transmitting a generated message to a first access node).

La Porta also teaches in column 35, lines 1-8, 26-31, and 46-53, and in FIG. 17, page 42, a base station item BS11 receives a path setup message from a mobile device (item 114, FIG. 17) and forwards the message so that it is received by a domain root router (item 360, FIG. 17), which, in column 12, lines 28-34, a DHCP server may be implemented within a root router (an access node forwarding generated message to a dynamic host configuration (DHCP) Server, Access router).

La Porta also teaches in column 35, line 57 to column 36, line 17, a domain root router processes the setup message and adds a routing table entry corresponding to a mobile device for forwarding packets destined to the mobile device (DHCP server analyzing message to determine a route to deliver data to a mobile node).

La Porta also teaches in column 35, lines 4-26, upon receiving a path setup message, a base station creates a routing entry for routing packets for delivery to a mobile device (an access node analyzing a message to determine a route to deliver data to a mobile node).

La Porta also teaches in column 16, lines 34-38 and 43-46, a path setup message sent by a base station to a root router and intermediate routers to re-fresh routing table entries for those selected routers which are utilized for packet transport from the root router to the base station (access node triggering one or more route update messages to a number of network elements between the access node and DHCP server, intermediate router). La Porta fails to teach stateful autoconfiguration, an access node adding its own address to a message, and an update message from a server. Immonen teaches stateful autoconfiguration, Edsall teaches an access node adding its own address to a message, and Prasad teaches an update message from a server.

In the same field of endeavor, Immonen teaches in column 31, lines 25-28, acquiring an Ipv6 address involves a stateful address autoconfiguration, i.e. DHCPv6 (stateful autoconfiguration). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Immonen with the invention of La Porta since Immonen shows a system specifically implementing stateful address autoconfiguration for assigning Ipv6 addresses, and can be incorporated into the method of La Porta to update the method of La Porta so that it is compatible with the emerging Ipv6 and allows the DHCP components of La Porta to utilize DHCPv6.

In the same field of endeavor, Edsall teaches in column 6, lines 56-67, and in FIG. 6, Sheet 5 of 5, an ISL ENCAP circuit appends an ISL source address to a packet, where the ISL source address is the address of a transmitting circuit in a switch (an access node adding its own address to a message). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Edsall with the invention of La Porta since Edsall provides a method where a switch can attach its address to a packet, allowing a base station in the method of La Porta to be able to identify itself in a message it forwards from a mobile device and allow a root router to store or process this information where needed in updating routing table entries.

In the same field of endeavor, Prasad teaches in column 7, lines 60-63, a centralized server sending update messages to update IP routing tables of Signal Transfer Points (STP) (an update message from a server). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Prasad with the invention of La Porta since Prasad shows that a server can update routing tables of intermediate network nodes, allowing the method of La Porta to have a root node that can update table entries of routers when it detects changes in a domain if a base station does not detect a change, or allows a user to access the root node and manually update routing tables of routers through the root node of a domain.

In regards to Claim 2, La Porta teaches in column 34, lines 41-43 and 54-55, and in FIG. 17, page 42, a mobile device handoff from one base station to another base station, which causes a mobile device to generate and transmit a setup message and

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routers to forward a path setup message for each handoff of the mobile device, as outlined in column 35, line 1 to column 36, line 25, and discussed above in the rejection of Claim 1 (repeating steps of generating, transmitting and forwarding of a second message when mobile node attaches to a second access node, and analyzing second message at DHCP server).

La Porta also teaches in column 36, lines 2-17, a root router, after receiving and processing a setup message that it is different from an earlier setup message, will update an entry associated with a mobile device (analyzing second message at DHCP Server to determine a second address used for route maintenance in a second message is inconsistent with a first address analysed in a first message). La Porta fails to teach stateful autoconfiguration, and triggering a route update message based on a determination. As discussed in the rejection of Claim 1, Immonen teaches stateful autoconfiguration. Li teaches triggering a route update message based on a determination.

In the same field of endeavor, Li teaches in column 6, lines 45-49, an event triggers transmission of a database update packet by a node (triggering a transmission of a route update message based on a determination). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Li with the invention of La Porta since Li shows an apparatus that transmits an update packet when an event occurs, allowing a device in the method of La Porta to send an update packet to other devices if forwarding a setup message alone does not update a

sufficient number of devices in a domain, or if a user wants devices outside the devices that receive a setup message to also be updated with the same information.

In regards to Claim 4, as discussed in the rejection of Claim 1, La Porta teaches a first IP message, and, as discussed in the rejection of Claim 2, La Porta teaches a second IP message. La Porta fails to teach stateful autoconfiguration and a DHCPv6 "CONFIRM" message. As discussed in the rejection of Claim 1, Immonen teaches stateful autoconfiguration. Immonen further teaches DHCPv6 "CONFIRM" message.

Immonen further teaches in column 23, lines 52-53, a confirmation message, and in column 31, lines 25-28, DHCPv6 (DHCPv6 "CONFIRM" message). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Immonen with the invention of La Porta since Immonen shows a system specifically implementing stateful address autoconfiguration for assigning Ipv6 addresses, and can be incorporated into the method of La Porta to update the method of La Porta so that it is compatible with the emerging Ipv6 and allows the DHCP components of La Porta to utilize DHCPv6.

In regards to Claim 5, as discussed in the rejection of Claim 1, La Porta teaches address information used for route maintenance. La Porta further teaches a distance-vector routing protocol, routing information protocol (RIP).

La Porta teaches in column 23, lines 24-28, messages are routed within a domain utilizing routing entries created by conventional routing protocols, such as

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Routing Information Protocol (RIP) (address information based on a distance-vector routing protocol, routing information protocol (RIP)).

In regards to Claims 19 and 20, La Porta teaches in column 15, lines 7-14, processing and memory resources at each router for implementing forwarding algorithms and other router functions (a storage medium storing processor-implementable instructions for controlling a processor, and an apparatus adapted to perform method steps).

Claims 3 and 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over La Porta in view of Immonen, Edsall, Prasad, and further in view of Shitama (Patent No.: US 7,257,104 B2), hereafter referred to as Shitama.

In regards to Claim 3, as discussed in the rejection of Claim 1, La Porta teaches a number of network elements between a DHCP Server and an access node and address information for route maintenance to a mobile node, and, as discussed in the rejection of Claim 2, La Porta in view of Li teaches a first access node and second access node and transmitting in response to a determination. La Porta fails to teach a deletion message that instructs in deleting obsolete information. Shitama teaches these limitations.

In the same field of endeavor, Shitama teaches in column 5, lines 37-44, a routing update message that may cause a router to delete an entry for a mobile node in a routing table when a mobile node moves between subnetworks in a domain or

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different domains (a deletion message that instructs in deleting obsolete information). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Shitama with the invention of La Porta since Shitama shows a system where a node can send a deletion message to a router to delete an entry, and can allow a root router in the method of La Porta to delete entries in routers if they have become obsolete and a setup message failed to reach the routers.

In regards to Claim 18, as discussed in the rejection of Claim 3, La Porta in view of Immonen, Edsall, Prasad, Li, and Shitama teaches a communication message comprises route deletion instructions generated. La Porta fails to teach an IPv6 message. Immonen further teaches these limitations.

In the same field of endeavor, Immonen teaches in column 21, lines 16-19, IPv6 packets (IPv6 messages). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Immonen with the invention of La Porta since Immonen shows a system specifically implementing stateful address autoconfiguration for assigning Ipv6 addresses, and can be incorporated into the method of La Porta to update the method of La Porta so that it is compatible with the emerging Ipv6 and allows the DHCP components of La Porta to utilize DHCPv6.

Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over La Porta in view of Li (Patent No.: US 6,385,174 B1), hereafter referred to as Li.

In regards to Claim 7, La Porta teaches in column 5, lines 43-48 and 51-54, Mobile IP wireless access for Internet Protocol (IP)-based network of mobile devices, and, in column 16, lines 20-31, a path setup message that is sent and initiated by a mobile device that is used to update routing table entries for selected routers, where, in column 18, lines 16-18, and in FIG. 9, page 33, a path setup message contains a mobile device IP address field (item 314, FIG. 9) that is used to inform a receiving router of the current IP address assigned for a mobile device within a domain (an access node with a receiving function for receiving a first IP message from a mobile node that contains an address of a mobile node for use in route maintenance to deliver data to a mobile node).

La Porta also teaches in column 15, lines 7-8 and 21-25, routers include base stations and routers each include a processor, and, in column 35, lines 4-26, upon receiving a path setup message, a base station creates a routing entry for routing packets for delivery to a mobile device (a processor operatively coupled to receiving function and processor analyses a first IP message to determine a route to deliver data to a mobile node).

La Porta also teaches in column 16, lines 34-38 and 43-46, a path setup message sent by a base station to a root router and intermediate routers to re-fresh routing table entries for those selected routers which are utilized for packet transport from the root router to the base station, where, in column 12, lines 28-34, a DHCP server may be implemented within a root router (a transmission of a route update message from an access node to a number of network elements between an access

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node and a DHCP server). La Porta fails to teach triggering a transmission of a route update message. Li teaches these limitations.

In the same field of endeavor, Li teaches in column 6, lines 45-49, an event triggers transmission of a database update packet by a node (triggering a transmission of a route update message). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Li with the invention of La Porta since Li shows an apparatus that transmits an update packet when an event occurs, allowing a device in the method of La Porta to send an update packet to other devices if forwarding a setup message alone does not update a sufficient number of devices in a domain, or if a user wants devices outside the devices that receive a setup message to also be updated with the same information.

Claims 8, 9, 13, 14 and 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over La Porta in view of Prasad and Li.

In regards to Claim 8, La Porta teaches in column 5, lines 43-48 and 51-54, Mobile IP wireless access for Internet Protocol (IP)-based network of mobile devices, and, in column 35, lines 1-8, 26-31, and 46-53, and in FIG. 17, page 42, a base station item BS11 receives a path setup message from a mobile device (item 114, FIG. 17) and forwards the message so that it is received by a domain root router (item 360, FIG. 17), which, in column 12, lines 28-34, a DHCP server may be implemented within a root router, and, in column 16, lines 20-31, a path setup message that is sent and initiated by a mobile device that is used to update routing table entries for selected routers,

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where, in column 18, lines 16-18, and in FIG. 9, page 33, a path setup message contains a mobile device IP address field (item 314, FIG. 9) and other address fields (items 316 and 318, FIG. 9) that are used to inform a receiving router of the current IP address assigned for a mobile device within a domain (a DHCP Server with a receiving function for receiving an IP message from a mobile node through a first access node, and where a message contains a number of addresses used for route maintenance to deliver data to a mobile node via a first access node).

La Porta also teaches in column 12, lines 28-34, a root router with a processor residing in the root router, and, in column 35, line 57 to column 36, line 17, a domain root router processes the setup message and adds a routing table entry corresponding to a mobile device for forwarding packets destined to the mobile device (a processor operably coupled to a receiving function and processor analyses of a first IP message to determine a route to deliver data to a mobile node).

La Porta also teaches in column 16, lines 34-38 and 43-46, a path setup message sent to intermediate routers to re-fresh routing table entries for those selected routers which are utilized for packet transport from the root router to the base station (transmission of a route update message to a number of network elements between an access node and DHCP server). La Porta fails to teach transmission of an update message from a server and triggering a transmission of a route update message. Prasad teaches an update message from a server, and Li teaches triggering a transmission of a route update message.

In the same field of endeavor, Prasad teaches in column 7, lines 60-63, a centralized server sending update messages to update IP routing tables of Signal Transfer Points (STP) (an update message from a server). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Prasad with the invention of La Porta since Prasad shows that a server can update routing tables of intermediate network nodes, allowing the method of La Porta to have a root node that can update table entries of routers when it detects changes in a domain if a base station does not detect a change, or allows a user to access the root node and manually update routing tables of routers through the root node of a domain.

In the same field of endeavor, Li teaches in column 6, lines 45-49, an event triggers transmission of a database update packet by a node (triggering a transmission of a route update message). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Li with the invention of La Porta since Li shows an apparatus that transmits an update packet when an event occurs, allowing a device in the method of La Porta to send an update packet to other devices if forwarding a setup message alone does not update a sufficient number of devices in a domain, or if a user wants devices outside the devices that receive a setup message to also be updated with the same information.

In regards to Claim 9, as discussed in the rejection of Claim 8, La Porta teaches a processor and addresses capable of use for route maintenance.

La Porta further teaches in column 34, lines 41-43 and 54-55, and in FIG. 17, page 42, a mobile device handoff from one base station to another base station, which causes a mobile device to generate and transmit a setup message and routers to forward a path setup message for each handoff of the mobile device, as outlined in column 35, line 1 to column 36, line 25, and discussed above in the rejection of Claim 1, and, in column 36, lines 2-17, a root router, after receiving and processing a setup message that it is different from an earlier setup message, will update an entry associated with a mobile device (DHCP Server receives and analyses a second IP message comprising a second set of addresses capable of use for route maintenance from a mobile node through a second access node, and analyzing a second IP message to determine whether a second set of addresses are consistent with a first set of addresses).

In regards to Claim 13, as discussed in the rejection of Claim 8, La Porta teaches route maintenance information and first IP message, and, as discussed in the rejection of Claim 9, a second IP message.

La Porta further teaches in column 9, lines 40-47, a memory residing in a root router (memory element operably coupled to a processor and containing a router table for storing maintenance information extracted from IP message).

In regards to Claim 14, as discussed in the rejection of Claim 8, La Porta teaches a DHCP server. La Porta further teaches in column 9, lines 21-34, and in FIG.

2, page 28, a domain-based architecture for a Handoff-Aware Access Internet Infrastructure (HAEAI), where Domian1 includes a root router (a data communication network adapted to incorporate a DHCP Server).

In regards to Claim 17, as discussed in the rejection of Claim 8, La Porta teaches a data communications network and a first access node, and, as discussed in the rejection of Claim 9, La Porta teaches a second access node. La Porta further teaches in column 5, lines 43-48 and 51-54, Mobile IP wireless access for Internet Protocol (IP)-based network of mobile devices, and, in column 35, lines 1-8, 26-31, and 46-53, and in FIG. 17, page 42, a base station item BS11 receives a path setup message from a mobile device (item 114, FIG. 17) (wireless access media communication link to facilitate a wireless link).

Claims 10 and 16 are rejected under 35 U.S.C. 103(a) as being unpatentable over La Porta in view of Prasad, Li, and further in view of Shitama.

In regards to Claim 10, as discussed in the rejection of Claim 8, La Porta teaches a DHCP Server, a processor, a first access node, a second access node, and address information used for route maintenance to a mobile node. La Porta fails to teach triggering a route update message to an access node to delete obsolete information. As discussed in the rejection of Claim 8, Li teaches triggering a route update message to an access node in response to a determination. Shitama teaches a deletion message that instructs in deleting obsolete information.

In the same field of endeavor, Shitama teaches in column 5, lines 37-44, a routing update message that may cause a router to delete an entry for a mobile node in a routing table when a mobile node moves between subnetworks in a domain or different domains (a deletion message that instructs in deleting obsolete information). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Shitama with the invention of La Porta since Shitama shows a system where a node can send a deletion message to a router to delete an entry, and can allow a root router in the method of La Porta to delete entries in routers if they have become obsolete and a setup message failed to reach the routers.

In regards to Claim 16, as discussed in the rejection of Claim 8, La Porta teaches a data communications network includes a first access node, and a number of routers located between an access node and a DHCP Server, and, as discussed in the rejection of Claim 9, La Porta teaches a second access node. La Porta fails to teach a tree-type topology. Shitama teaches this limitation.

In the same field of endeavor, Shitama teaches in column 10, lines 51-53, and in FIG. 16, Sheet 14 of 23, a domain (item 24) that form a tree with a border router (item 23) as a root (a tree-type topology). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Shitama with the invention of La Porta since Shitama shows a tree topology for a domain, which can be used to provide a topology in the method of La Porta to provide efficient message forwarding and efficient monitoring of network activity.

Claims 11, 12 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over La Porta in view of Prasad, Li, and further in view of Immonen.

In regards to Claim 11, as discussed in the rejection of Claim 8, La Porta teaches a DHCP Server and a first IP message, and, as discussed in the rejection of Claim 9, a second IP message. La Porta fails to teach IPv6 messages. Immonen teaches these limitations.

In the same field of endeavor, Immonen teaches in column 21, lines 16-19, IPv6 packets (IPv6 messages). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Immonen with the invention of La Porta since Immonen shows a system specifically implementing stateful address autoconfiguration for assigning Ipv6 addresses, and can be incorporated into the method of La Porta to update the method of La Porta so that it is compatible with the emerging Ipv6 and allows the DHCP components of La Porta to utilize DHCPv6.

In regards to Claim 12, as discussed in the rejection of Claim 8, La Porta teaches a first IP message, and, as discussed in the rejection of Claim 9, La Porta teaches a second IP message. La Porta fails to teach an IPv6 stateful autoconfiguration 'CONFIRM' message. As discussed in the rejection of Claim 11, Immonen teaches IPv6. Immonen further teaches stateful autoconfiguration 'CONFIRM' message.

In the same field of endeavor, Immonen teaches in column 31, lines 25-28, acquiring an Ipv6 address involves a stateful address autoconfiguration, i.e. DHCPv6, and, in column 23, lines 52-53, a confirmation message (stateful autoconfiguration "CONFIRM" message). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Immonen with the invention of La Porta since Immonen shows a system specifically implementing stateful address autoconfiguration for assigning Ipv6 addresses, and can be incorporated into the method of La Porta to update the method of La Porta so that it is compatible with the emerging Ipv6 and allows the DHCP components of La Porta to utilize DHCPv6.

In regards to Claim 15, as discussed in the rejection of Claim 8, La Porta teaches a first access node and access router. La Porta further teaches in column 20, lines 39-43, assuming a DHCP server is co-located at a root router, then a base station will act as a DHCP server relay (access router collocated with relay functions). La Porta fails to teach DHCPv6 functions. Immonen teaches these limitations.

Immonen further teaches in column 31, lines 25-28, DHCPv6 (DHCPv6 functions). It would have been obvious to one of ordinary skill in the art at the time of the invention to combine the invention of Immonen with the invention of La Porta since Immonen shows a system specifically implementing stateful address autoconfiguration for assigning Ipv6 addresses, and can be incorporated into the method of La Porta to update the method of La Porta so that it is compatible with the emerging Ipv6 and allows the DHCP components of La Porta to utilize DHCPv6.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Choyi et al. (Pub. No.: US 2005/0213545) teaches a macro mobility feature in which a mobile node gains access to the Internet while retaining the same IP address.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Joshua Smith whose telephone number is 571-270-1826. The examiner can normally be reached on Monday through Friday, 9:30 AM to 7:00 PM, EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou can be reached on 571-272-3088. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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